Reasoning and Problem Solving Step 3: Using Rounding to Estimate Money

National Curriculum Objectives:

Mathematics Year 4: (4M1) <u>Compare different measures, including money in pounds and pence</u> Mathematics Year 4: (4M2) <u>Estimate different measures, including money in pounds and pence</u> Mathematics Year 4: (4M9) <u>Calculate different measures, including money in pounds and</u>

pence

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain what amount the arrow could be pointing to on the blank number line using £.p values. Both end values given.

Expected Explain what amount the arrow could be pointing to on the blank number line using 3-digit values. Both end values given.

Greater Depth Explain what amount the arrow could be pointing to on the blank number line using 4-digit values. The number line spans more than £1. One end value given.

Questions 2, 5 and 8 (Reasoning)

Developing Explain whether you agree or disagree with the rounding statement using £.p values.

Expected Explain whether you agree or disagree with the rounding statement using 3-digit values.

Greater Depth Explain whether you agree or disagree with the rounding statement using 4digit values.

Questions 3, 6 and 9 (Problem Solving)

Developing Use the 3 digit cards to make amounts which round to the given £.p value. Expected Use the 4 digit cards to make amounts which round to the given 3-digit value. Greater Depth Use the 5 digit cards to make amounts which round to the given 4-digit value.

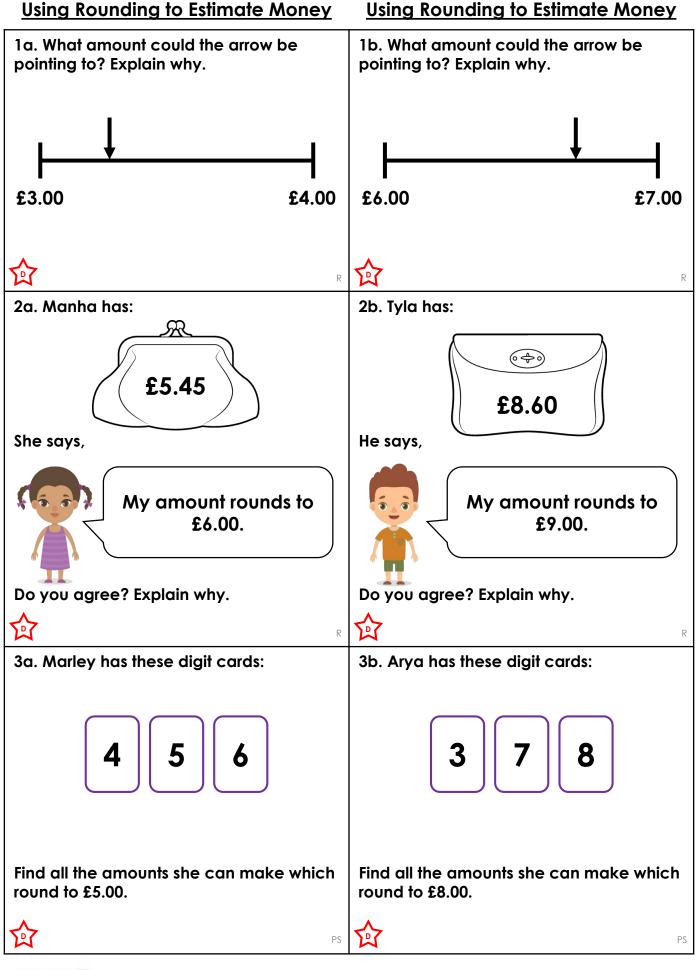
More <u>Year 4 Money</u> resources.

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Reasoning and Problem Solving – Using Rounding to Estimate Money – Teaching Information

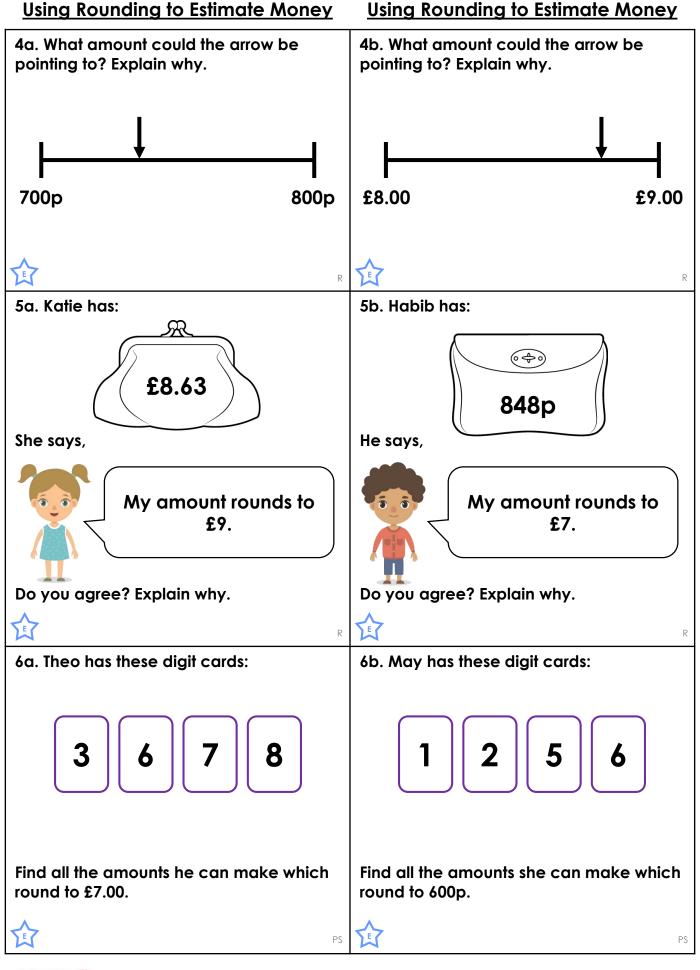


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Reasoning and Problem Solving – Using Rounding to Estimate Money – Year 4 Developing

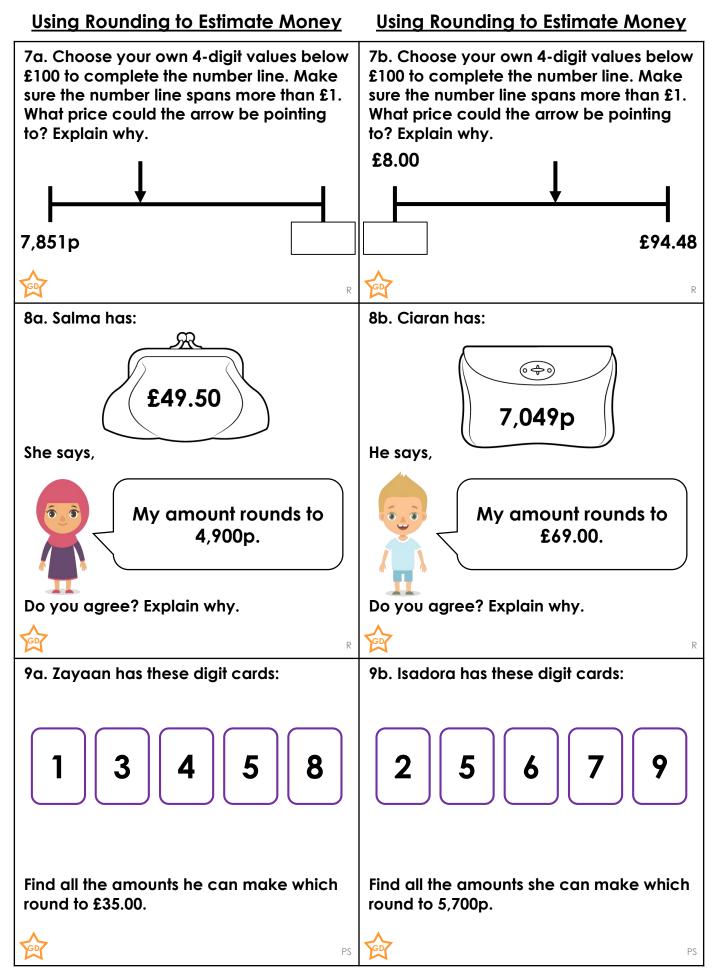


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Reasoning and Problem Solving – Using Rounding to Estimate Money – Year 4 Expected



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Reasoning and Problem Solving – Using Rounding to Estimate Money – Year 4 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Using Rounding to Estimate Money</u>

Developing

1a. The arrow is pointing about one quarter of the way along the line so the price is approximately £3.25.
2a. Disagree because amounts less than £5.50 will round down to £5.00. £5.45 is nearer to £5.00 than £6.00.
3a. £5.46, £4.56, £4.65

Expected

4a. The arrow is pointing to just less than half way along the number line so the price could be between 735p/£7.35 and 745p/£7.45.

5a. Agree because amounts over £8.50 will round up to £9.00. £8.63 is nearer to \pounds 9.00 than £8.00.

6a. £6.73, £6.78, £6.83, £6.87, £7.36, £7.38

Greater Depth

7a. Accept any answers which complete and interpret the number line accurately.
8a. Disagree because the amount is half way between £49.00 and £50.00 therefore it should round up to the next whole pound which is £50.00 or 5,000p.
9a. £34.51, £34.58, £34.81, £34.85, £35.14, £35.18, £35.41, £35.48

<u>Reasoning and Problem Solving</u> <u>Using Rounding to Estimate Money</u>

Developing

1b. The arrow is pointing about three quarters of the way along the line so the price is approximately £6.75.
2b. Agree because amounts over £8.50 will round up to £9.00. £8.60 is nearer to £9.00 than £8.00.
3b. £7.83, £8.37

Expected

4b. The arrow is pointing over three quarters of the way along the number line so the price must be more than £8.75. Therefore, the price could be between £8.80 and £8.90.

5b. Disagree because amounts below
850p will round down to the previous
pound which is £8.00. Habib has correctly
rounded down but to the wrong pound.
6b. 561p, 562p, 612p, 615p, 621p, 625p

Greater Depth

7b. Accept any answers which complete and interpret the number line accurately. 8b. Disagree because amounts below 7,049p will round down to the previous pound which is £70.00 or 7,000p. Ciaran has correctly rounded down but to the wrong pound.

9b. 5,672p, 5,679p, 5,692p, 5,697p, 5,726p, 5,729p

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Reasoning and Problem Solving – Using Rounding to Estimate Money ANSWERS